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MATHEMATICAL GEOGRAPHY AND CARTOGRAPHY

BÖHM, A. VON. Grössen von Meridiangraden und Eingradfeldern. *Geogr. Zeitschr.*, Vol. 20, 1914, No. 12, pp. 701-703.

GROSSE, M. Dr. Peuckers farbenplastische Wanderkarten Bergheil. Maps. *Deutsche Rundschau für Geogr.*, Vol. 37, 1914-15, No. 5, pp. 216-229.

WEULE, K. Zur Kartographie der Naturvölker. Maps, ill. *Petermanns Mitt.*, Vol. 61, 1915, Jan., pp. 18-21, Feb., 59-62.

PHYSICAL GEOGRAPHY

KASSNER, C. Die Entstehung des Büsserschnees. *Petermanns Mitt.*, Vol. 61, 1915, Feb., pp. 57-59.

— Changes of Relative Levels of Land and Sea. *Nature*, No. 2372, Vol. 95, 1915, p. 189.

OCEANOGRAPHY

BRENNECKE, W. Aufgaben und Probleme der Ozeanographie. Map, diagrams. *Annal. Hydrogr. & Marit. Meteorol.*, Vol. 43, 1915, No. 2, pp. 49-62.

GARDINER, J. S. Submarine Slopes. Maps, diagrams. *Geogr. Journ.*, Vol. 45, 1915, No. 3, pp. 202-219.

— Listes planktoniques des recherches quantitatives pour les années 1910-11. 136 pp. *Bull. planktonique pour les années 1908-11*, 2ème Partie. Conseil Perm. Internat. pour l'Explor. de la Mer, Copenhagen, 1914.

GENERAL

BARNES, H. T. Icebergs and their Location in Navigation. Diagrams. *Proc. Roy. Inst. of Great Britain*, No. 106, Vol. 20, Part 2, pp. 523-542.

GRAVES, H. S. The Place of Forestry among Natural Sciences. *Science*, No. 1047, Vol. 41, 1915, pp. 117-127.

JEFFERS, LE R. Selected List of Books on Mountaineering. 15 pp. New York Public Lib., 1914.

SAPPER, K. Der gegenwärtige Stand der Länderkunde. *Die Naturwissenschaften*, Vol. 3, 1915, No. 8, pp. 89-95.

— The International Commission on Boundary Waters. *Science*, No. 1045, Vol. 41, 1915.

NEW MAPS

EDITED BY THE ASSISTANT EDITOR

For system of listing maps see p. 75 of this volume

MAPS ISSUED BY UNITED STATES GOVERNMENT BUREAUS

U. S. GEOLOGICAL SURVEY

Arizona. Mesa Quadrangle. Surveyed in 1903-1904 and 1913. 1:62,500. 33°30' - 33°15' N.; 112°0' - 111°45' W. Contour interval 25 ft. Edition of April 1915.

Arizona-New Mexico. Morenci Quad. Surveyed in 1900-1901 and 1912-1913. 1:125,000. 33°30' - 33°0' N.; 109°30' - 109°0' W. Interval 100 ft. Edit. of Mar. 1915.

[The southwestern quarter is a reduction of the Clifton sheet, 1:62,500, published in 1902.]

California. Ronda Quad. Surveyed in 1905. 1:31,680. 38°52'30" - 38°45'0" N.; 121°52'30" - 121°45'0" W. Interval 5 ft. Edit. of Apr. 1915.

[Belongs to the two-inches-to-the-mile series covering the Sacramento-San Joaquin Valley.]

Illinois-Missouri. Chester Quad. Surveyed in 1912-1913. 1:62,500. 38°0' - 37°45' N.; 90°0' - 89°45' W. Interval 20 ft. Edit. of Mar. 1915.

Kentucky. Hindman Quad. Surveyed in 1912. 1:62,500. 37°30' - 37°15' N.; 83°0' - 82°45' W. Interval 50 ft. Edit. of May, 1915.

[Co-extensive with the northwest quarter of the old Whitesburg, Ky.-Va., sheet, 1:125,000, last published in 1892.]

Minnesota. Vergas Quad.* Surveyed in 1912. 1:62,500. 46°45' - 46°30' N.; 96°0' - 95°45' W. Interval 10 ft. Edit. of Feb. 1915.

Nebraska-Missouri. Nemaha Quad.* Surveyed in 1911-1912. 1:62,500. 40°30' - 40°15' N.; 95°45' - 95°30' W. Interval 20 ft. Edit. of April, 1915.

New York. Churubusco Quad. Surveyed in 1912. 1:62,500. 45°0' - 44°45' N.; 74°0' - 73°45' W. Interval 20 ft. Edit. of May, 1915.

NORTH AMERICA

UNITED STATES

United States, etc. New Official (Railroad) Map of the United States and Southern Canada. 1:2,217,600. 54° - 24° N.; 128° - 65° W. 13 colors. Rand, McNally & Co., Chicago and New York, current date. Price \$35.00.

[The value, to a geographer, of maps showing the railroad systems of a country in distinctive colors has occasionally been dwelt upon in this department. This value is all the greater in the case of countries like our own, where, owing to private ownership, the different systems are, on the map, almost hopelessly intertwined; if for no other reason than to distinguish them, colors are necessary. In this respect the present map will be found very helpful: its large scale makes possible a clear treatment of even the densest network of lines, as in the Middle West, for instance. About twelve different colors are used; by avoiding the use of the same color for adjoining or overlapping systems no more colors are needed to portray the incomparably greater number of existing railroad systems. The colors are applied by hand, on a black-and-white wax-engraved base map. State boundaries are shown by yellow bands: this seems unnecessary, as it only tends to obscure the colors where the lines run within the band, as between Chicago and Milwaukee or along the lower Columbia. There is no general key showing at a glance the symbols used for the various systems; each system can only be identified by referring to the abbreviations of its name which are printed along each line in small black type. As regards symbolism, the present map has, therefore, not mastered the problem as successfully as Aberle's admirable railroad map of the United States (reviewed in the *Bull.*, Vol. 46, 1914, pp. 875-876), on which practically a distinctive symbol is used for each system; nor has it done so as regards reproduction, for both Aberle's map and a similar one by Gray (see under "United States," *Bull.*, Vol. 44, 1912, p. 155) are printed and not hand-colored. However, the question of size of sales might be a determining factor. As regards scale, the present map has somewhat of an advantage over the other two, being in 1:2,217,600, as against 1:2,750,000 for the Gray map and 1:3,168,000 for Aberle's; and this gives it an important place among the maps of its class.]

SOUTH AMERICA

Brazil, etc. Die Amazonas-Waldgebiete. Entworfen von Ludwig Koegel. 1:7,500,000. 12° N. - 16° S.; 82° - 44° W. 4 colors. Accompanies, as Taf.

* On these sheets woods are shown in green.

30, "Die Urwaldgebiete Amazoniens: Begleitworte zur Karte auf Tafel 30" by L. Koegel, *Petermanns Mitt.*, Vol. 60, II, 1914, Nov., pp. 226-227.

[Valuable map showing the extent of the equatorial rain forest within the limits of the natural region of "Amazonia," based on an exhaustive study of the relevant literature (the article is a summary of a thesis). Distinction is made between the vast expanse of the equatorial forest and the interspersed enclaves of savanna (mainly in the east). Superimposed on the author's interpretation, with which they broadly tally, are the savanna areas according to an important Brazilian publication by Gonzaga de Campos, unknown to the author at the time of compilation, and the western boundary of "Amazonia" and of the distribution of *Hevea brasiliensis*, according to Walle. Between the Mamoré and the Tapajoz the boundary of the equatorial forest is indicated as hypothetical: the results of the Roosevelt-Rondon expedition would seem to make it probable that there is a reentrant of the equatorial forest up the valley of the Rio Theodoro. At all events, the "spur" of savanna indicated to the west of the Tapajoz by Gonzaga de Campos is thus shown to be hypothetical in its outline, as, on its western side, it would run athwart the now known course of the Rio Theodoro valley (if that river were shown on the map)—a phytogeographic improbability.]

AFRICA

Egypt. Reise im Nordosten der Libyschen Wüste 1914. Von Paul Borchardt. 1:500,000. 30°33' - 28°0' N.; 28°32' - 31°15' E. 4 colors. Accompanies, as Taf. 24, "Im Nordosten der Libyschen Wüste" by P. Borchardt, *Petermanns Mitt.*, Vol. 60, II, 1914, Oct., pp. 179-183.

[Valuable map on a relatively large scale of the section of the Libyan Desert immediately adjoining the Nile to the west of the latitude of the Fayûm. Relief is shown in brown hachuring, drainage in blue, fertile areas in green, sand dunes in yellow. The author's route, shown in red, was chosen with a view to avoiding the routes of previous explorers (which are also shown). It led from the Fayûm west-northwest to the *hattia* Moghara, thence south to the oasis Baharia, and east to the Nile again at Minia.]

Morocco. Das Sus in Süd-Marokko. Nach allen vorhandenen Quellen gezeichnet von R. Schleifer. 1:400,000. 31°7' - 29°40' N.; 10°3' - 7°58' W. 3 colors. Accompanies, as Taf. 32, "Das Sus in Südmarokko: Bemerkungen zur Karte auf Tafel 32" by R. Schleifer, *Petermanns Mitt.*, Vol. 60, II, 1914, Nov., pp. 220-221.

[Valuable map, based on all available material, of the Sus region, the important gateway into Morocco from the Atlantic side. Relief is in brown hachuring; drainage in blue; the Sus plain in green. The text contains a list of the maps used in the compilation.]

EUROPE

France, etc. Die Organisation des Luftfahrwesens in Frankreich vor Ausbruch des Krieges. 1:1,200,000. 52° - 43° N.; 2½° W. - 9½° E. 9 colors. With inset: Paris und Umgebung. 1:150,000. 4 colors. Accompanies, as Taf. 33, "Luftfahrstationen" by A. Hildebrandt, *Petermanns Mitt.*, Vol. 60, II, 1914, Nov., pp. 253-254.

[Overelaborate map, enlarged from *Stieler's Hand-Atlas*, distinguishing between the boundaries and headquarters of the *groupes d'aéronautiques*, the *ports d'attache*, the seats of the *escadrilles d'avions*, the *centres aéronautiques* and the *centres d'aviation*, and other information regarding the military aviation.]

Russia, etc. Sprachenkarte von Russisch-Polen nach der Ersten Russischen Volkszählung von 1897. 1:1,200,000. 55°42' - 49°40' N.; 16°5' - 25°45'

E. 32 colors. Accompanies, as Taf. 34, "Russisch-Polen: Landeskundliches und Militärgeographisches" by H. Praesent, *Petermanns Mitt.*, Vol. 60, II, 1914, Dec., pp. 257-262.

[Shows, by an ingenious symbolism, the percentages of the various races inhabiting Russian Poland. The unit used is the *uyezd*, the administrative division next in order of size below the *gouvernement*: areal coloring is employed to show the races composing more than 50% of the population, and marginal coloring for those composing less than 50%. In the former category are differentiated 5 percentage grades of Poles, 2 of Russians, 4 of Lithuanians; in the latter 4 of Poles, 5 of Russians, 1 of Lithuanians, 3 of Germans, and 3 of Jews.]

WORLD AND PARTS OF IT

Southeastern Europe and the Near East. Hans Schiltbergers Itinerar. I. 1394-1402. Entworfen von J. Bergbauer. 1:7,500,000. 53° - 27° N.; 8° - 44° E. 13 colors. Accompanies, as Taf. 35, "Das Itinerar des Münchener Orientreisenden Hans Schiltberger von der Zeit seines Aufbruches aus der Heimat (1394) bis zu seiner Gefangennahme durch Tamerlan in der Schlacht bei Angora (1402)" by J. Bergbauer, *Petermanns Mitt.*, Vol. 60, II, 1914, Dec., pp. 363-365.

[Reconstruction of the itinerary of a Bavarian mercenary of the fourteenth century, sometimes called for his peregrinations in the Orient the "German Marco Polo."]

Other Maps Received

NORTH AMERICA.

North America. Amérique du Nord. 1:28,000,000. Inset: Peuplement de l'Amérique du Nord. Librairie Garnier Frères, Paris [1915?].

CANADA

Alberta. Geological and topographical map of the Moose Mountain region of the "disturbed belt," southern Alberta. 1:126,720. Accompanies "Moose Mountain District, Southern Alberta," by D. D. Cairnes, Memoir 61, Geological Survey, Ottawa, 1914.

Topographical map showing coal areas of the Moose Mountain region of the "disturbed belt," southern Alberta. 1:126,720. Accompanies "Moose Mountain District, Southern Alberta," by D. D. Cairnes, Memoir 61, Geological Survey, Ottawa, 1914.

Manitoba-Saskatchewan. Explored routes in the lower parts of the drainage area of Churchill and Nelson Rivers, Manitoba and Saskatchewan. 1:1,013,760. Accompanies "The Basins of Nelson and Churchill Rivers" by William Innes, Memoir No. 30, Geological Survey, Ottawa, 1913.

UNITED STATES

Alaska. Geologic map of part of Rampart Quadrangle, Alaska. 1:250,000. Accompanies as Pl. iv "A Geologic Reconnaissance of a Part of the Rampart Quadrangle, Alaska," by H. M. Eakin, U. S. G. S. Bull. 535, 1913.

Reconnaissance map of part of Rampart Quadrangle, Alaska. 1:250,000. Accompanies as Pl. 1 "A Geologic Reconnaissance of a Part of the Rampart Quadrangle, Alaska," by H. M. Eakin, U. S. G. S. Bull. 535, 1913.

Florida. Phytogeographic map of south Florida, by J. W. Harshberger. 1:500,000. Accompanies "Transactions of the Wagner Free Institute of Science of Philadelphia," Vol. 7, Part 3, October, 1914.

United States. Rand, McNally & Co.'s general [wall] map of the United States with portions of the Dominion of Canada and Republic of Mexico. 45 mi. to 1 in. [1:2,850,000]. Rand, McNally & Co. [Chicago], 1912. Price \$5.

SOUTH AMERICA

Peru. Mittel- und Nord-Perú [five maps]: (1) Zusammensetzung der Sierra von Süd-Ecuador und von Peru; (2) Zur Übersicht der Einteilung der Sierra in orographische Unterabteilungen sowie der Hydrographie; (3) Zur Übersicht der jetzigen und der Eiszeitlichen Vergletscherung; (4) Zur Übersicht der wichtigsten Vegetationsformationen; (5) Zur Übersicht der Wirtschaftsgebiete, der Wirtschaftsverhältnisse und der Hauptverkehrswege. By W. Sievers. 1:1,200,000. Accompanies "Reise in Peru und Ecuador, ausgeführt 1909," by W. Sievers. Wiss. Veröffentl. d. Ges. f. Erdkunde zu Leipzig, Vol. 8, 1914.

AFRICA

Libya. [3 sheets covering a zone about 5' in width from Agilat to Tripoli and beyond and from Tripoli south to Garián]. 1:100,000. Fo. 1, Záuia; 2, Tripoli; 3, Garián. Istituto Geografico Militare, [Firenze], 1913.

ASIA

Asia. Asie, carte politique. 1:30,000,000. Insets: Asie (ethnographic); Asie (religions). Librairie Garnier Frères, Paris [1915?].

AUSTRALASIA AND OCEANIA

Australia. Map of Western Australia, showing the goldfields and other mining districts, also the distribution of useful minerals. 1:4,752,000. Accompanies "Annual Progress Report of the Geological Survey [of Western Australia] for 1913," Perth, 1914.

EUROPE

British Isles. Geological Survey of Scotland. 1:63,360. Sheets: 110, Latheron; 116, Wick. Ordnance Survey Office, Southampton, 1914.

Europe. Europe politique. 1:15,000,000. Librairie Garnier Frères, Paris [1915?].

Karte des östlichen Kriegsschauplatzes. 1:3,000,000. Dietrich Reimer (Ernst Vohsen), Berlin, 1914. Mk. 1.

Dietrich Reimer's Karte des östlichen Kriegsschauplatzes. 1:1,000,000. Dietrich Reimer (Ernst Vohsen), Berlin, 1914. Mk. 1.

Karten des westlichen Kriegsschauplatzes. [Two joined sheets]: (1) Süd Niederlande und Belgien, 1:1,000,000; (2) Ost-Frankreich, 1:1,250,000. Dietrich Reimer (Ernst Vohsen), Berlin, 1914. Mk. 1.

Dietrich Reimers Kriegsstands-Karte der Deutschen und Österreichisch-Ungarischen Armeen in 14 tägigen Kurven. 1:4,000,000. Dietrich Reimer (Ernst Vohsen), Berlin [1915]. Pf. 50.

Dietrich Reimer's Karte zur Übersicht der gegenwärtigen Kriegslage in Europa und den Mittelmeerländern. 1:4,000,000. Dietrich Reimer (Ernst Vohsen), Berlin, 1915. Mk. 1.

Mediterranean Sea. Adriatic. East coast, Zirona channel to Curzola. From Austrian surveys to 1901. [1:150,000]. U. S. Hydrographic Office, Washington, Feb. 1915. Chart No. 3958.

Cape San Antonio to Cape Tortosa. From Spanish surveys to 1913. [1:230,000]. Insets: Valencia; Port Gandia; P. Sagunto. U. S. Hydrographic Office, Washington, Dec. 1914. Chart No. 3932.

Gibraltar to Alicante (Europe) and Cape Spartel to Cape Ferrat (Africa), from Spanish and French surveys to 1910. [1:725,000]. U. S. Hydrographic Office, Washington, Feb. 1915. Chart No. 3915.

Ionian Sea: Santa Maura, Ithaca and Cephalonia Islands, with the adjacent coast from Kastrosikia to Kastro Tornese. From British surveys between 1864

and 1872. [1:80,000]. U. S. Hydrographic Office, Washington, Feb. 1915. Chart No. 3961.

North Sea. The North Sea, northern sheet. Compiled from the latest information. [1:640,000]. Chart No. 4843. U. S. Hydrographic Office, Washington, Jan. 1915. Chart No. 4843.

North Sea: Dover and Calais to Orfordness and Scheveningen. Compiled from the latest information. [1:250,000]. U. S. Hydrographic Office, Washington, Feb. 1915. Chart No. 4848.

North Sea: Netherlands, Scheveningen to Ameland, including the Zuider Zee. From Netherlands Government surveys to 1913. [1:200,000]. U. S. Hydrographic Office, Washington, Jan. 1915. Chart No. 4849.

North Sea: Germany, Elbe River, Brunsbüttelkoog to Hamburg. From the latest German surveys. [1:55,000]. Inset: Hamburg and Altona Harbors, 1:13,500. U. S. Hydrographic Office, Washington, Feb. 1915. Chart No. 4909.

Russia. Geologisk Översiktskarta över Finland. 1:400,000. Sektionerna C6, Rovaniemi; B5, Tornea; B6, Över-Tornea. Beskrivning till Bergartskartan av Victor Hackman. Geologiska Kommissionen, Helsingfors, 1914.

Petrological map of the Orijärvi region, by Pentti Eskola. 1:20,000. Accompanies as map 2, "On the Petrology on the Orijärvi region in southwestern Finland," by Pentti Eskola, Bull. Comm. Géol. de Finlande, No. 40, Helsingfors, 1914.

Petrological map of the Kisko-Kimito leptite belt, by Pentti Eskola. 1:200,000. Accompanies as map 1, "On the Petrology on the Orijärvi region in southwestern Finland," by Pentti Eskola, Bull. Comm. Géol. de Finlande, No. 40, Helsingfors, 1914.

Switzerland. Berner Oberland und Oberwallis. 1:75,000. Accompanies "Jahrbuch des Schweizer Alpenclub," Vol. 48, Bern, 1913.

WORLD AND LARGER PARTS

Southeastern Europe-Near East. Méditerranée orientale. 1:2,500,000. André Lesot, Éditeur, Paris [1915?]. 3 frs.

Dietrich Reimers Generalkarte des Türkischen Kriegsschauplatzes auf Grund der Carte générale des provinces européennes et asiatiques de l'Empire Ottoman von H. Kiepert. 1:3,000,000. Dietrich Reimer (Ernst Vohsen), Berlin, 1914. 1 Mk. 50 Pfg.

World. Rand-McNally library [wall] map of the world. Equatorial scale 1:29,000,000. [On reverse side, United States, q. v.] Rand, McNally & Co., [Chicago], 1912. Price \$5.

ATLASES

Maps of old London. 27 pp. and 9 maps. A. & C. Black, London, 1908.

Elementary atlas of Egypt [in Arabic]. 11 maps. Survey Department. Giza [1914?].

Atlas of the world [in Arabic]. Part 1, 10 pls.; Pt. 2, 10 pls. Survey Department, Giza, 1913.

African war atlas, nine maps showing localities of the fighting in the "German" colonies in Africa. Office of "South Africa," London, E.C. [1915].

Graphisch-Statistischer Atlas der Schweiz, Tafel 1-51b. Statistisches Bureau des eidgen. Departements des Innern, Bern, 1914.

Philips' Comprehensive Atlas. A new and enlarged edition containing 82 coloured plates and a complete index. Edited by George Philip, F.R.G.S. George Philip & Son, Ltd., London [1915?].

Mapa językowa i wyznaniowa Galicji, by Wincenty Choroszewski, 4 pp., 2 pls. Nakładem Autora Czcionkami Drukarni Jakubowskiego i Sp., Lwów, 1911. Polish Book Importing Co., New York.